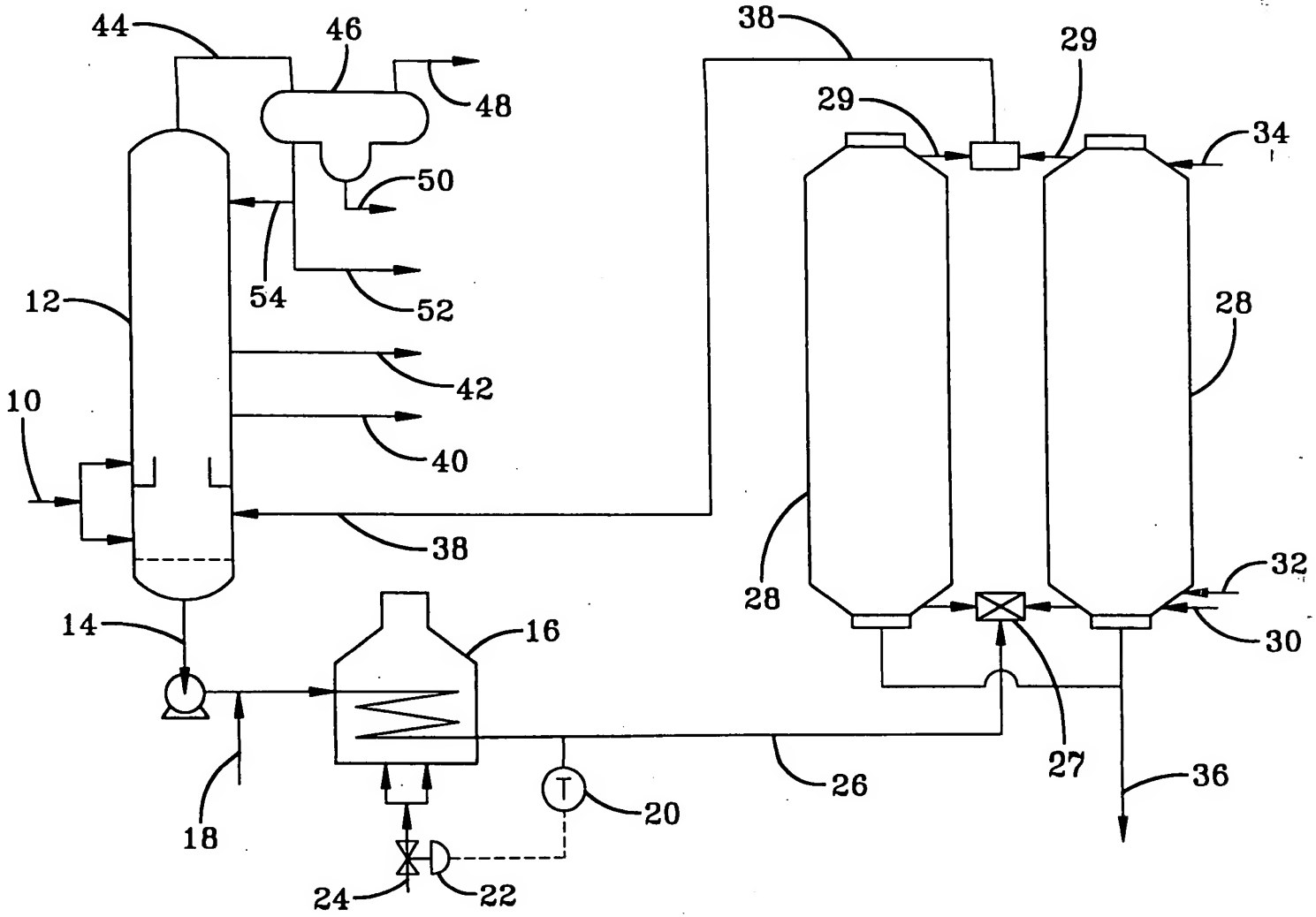
FIG-1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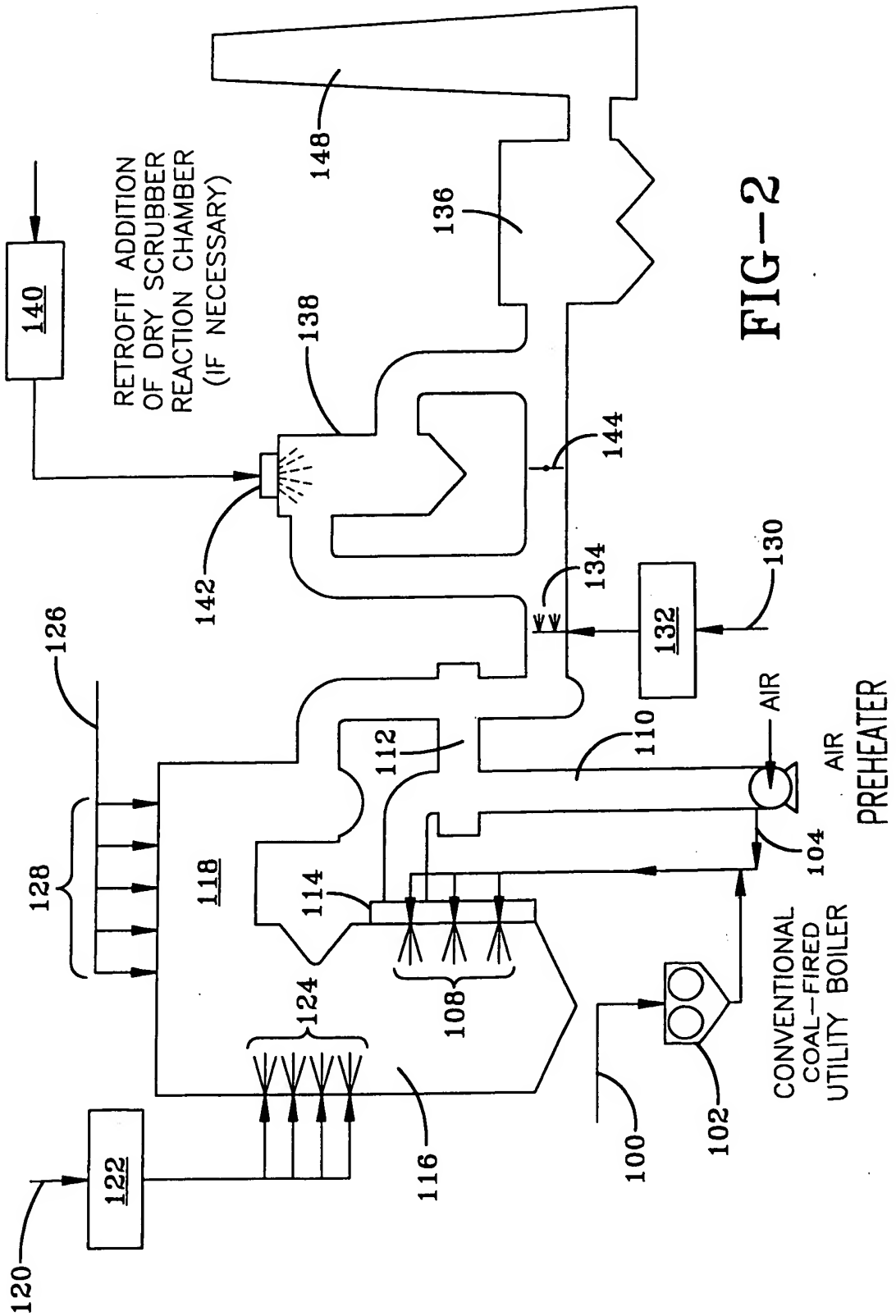
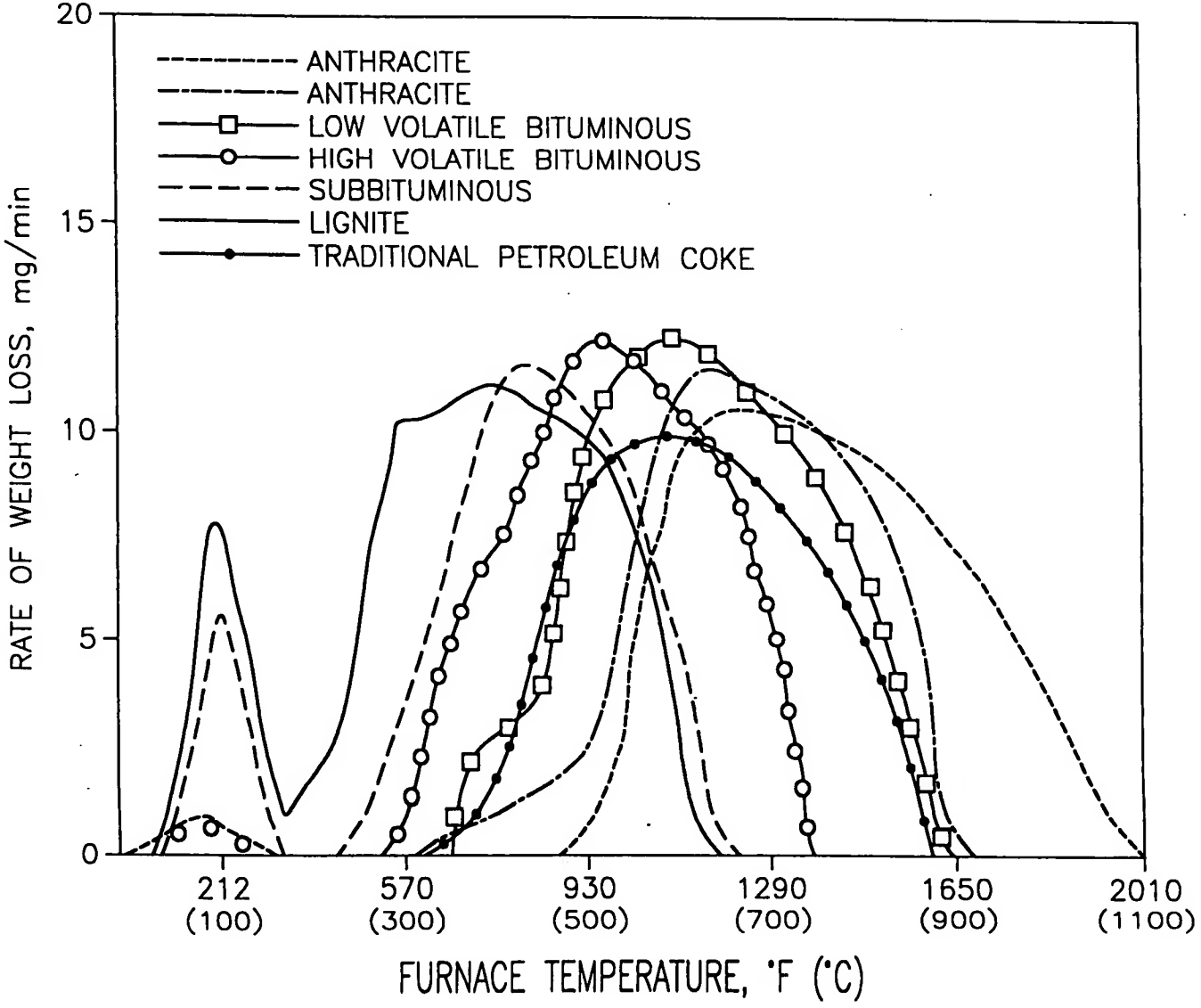
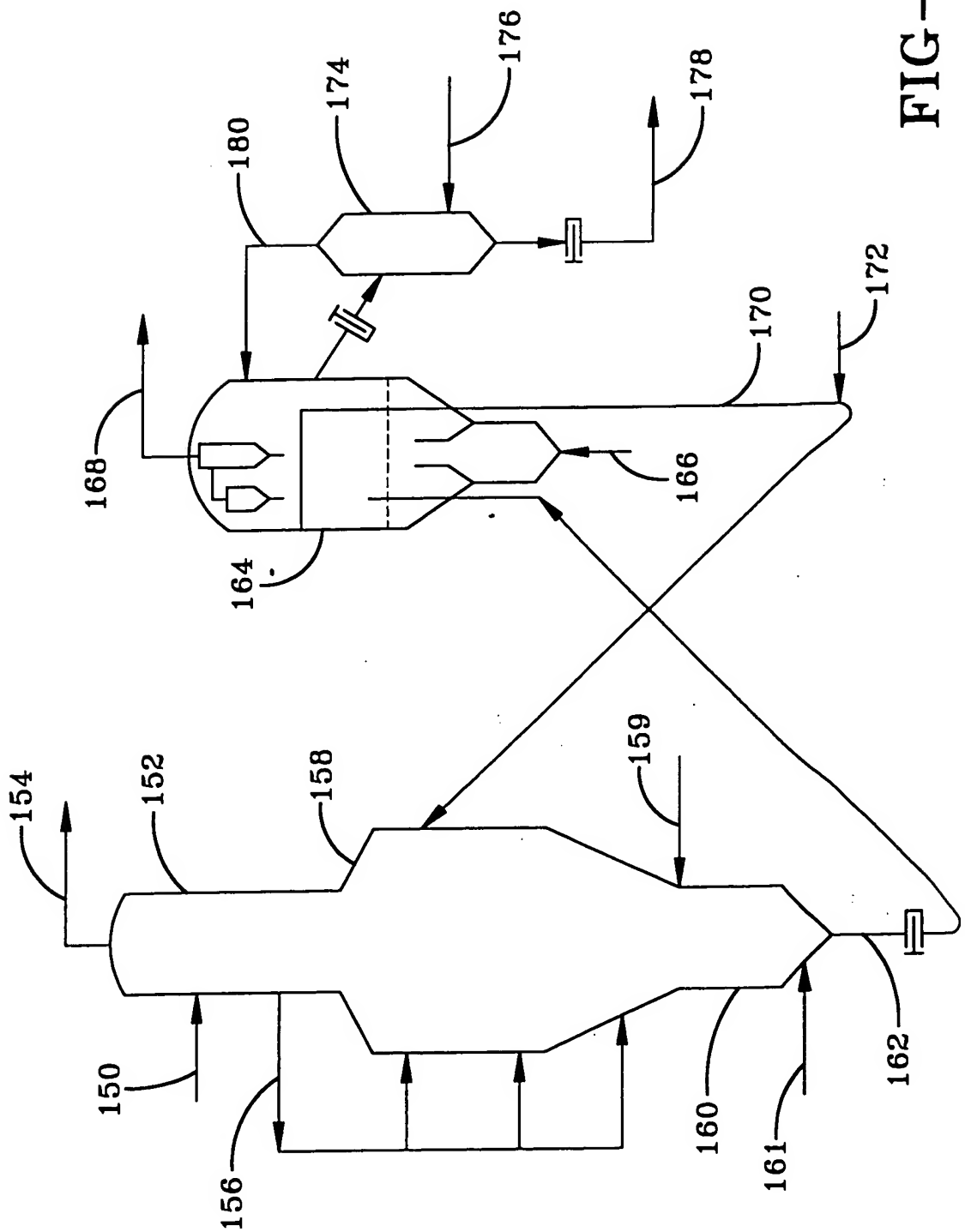

140
RETROFIT ADDITION OF DRY SCRUBBER REACTION CHAMBER (IF NECESSARY)
148
136
138
144
142
134
132
130
126
128
118
112
110
AIR
AIR PREHEATER
114
104
124
108
CONVENTIONAL COAL-FIRED UTILITY BOILER
116
100
102
122
120

FIG-2

FIG–3


ANTHRACITE
ANTHRACITE
LOW VOLATILE BITUMINOUS
HIGH VOLATILE BITUMINOUS
SUBBITUMINOUS
LIGNITE
TRADITIONAL PETROLEUM COKE
RATE OF WEIGHT LOSS, mg/min
20
15
10
5
0
212 (100)
570 (300)
930 (500)
1290 (700)
1650 (900)
2010 (1100)
FURNACE TEMPERATURE, °F (°C)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178

FIG-4

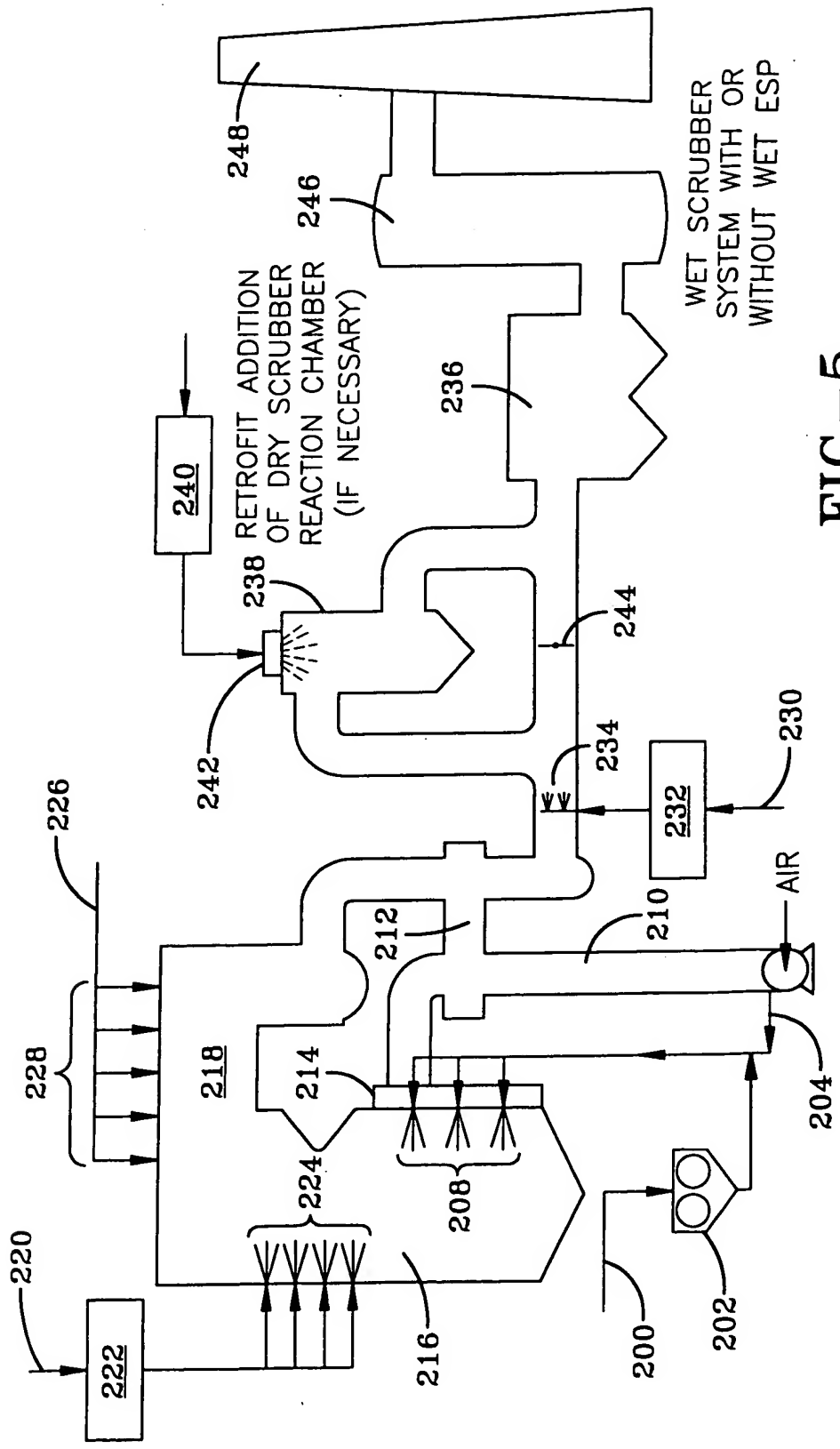
248
246
WET SCRUBBER SYSTEM WITH OR WITHOUT WET ESP
236
240
RETROFIT ADDITION OF DRY SCRUBBER REACTION CHAMBER (IF NECESSARY)
238
244
242
234
230
232
226
AIR
212
210
228
218
214
204
224
208
220
222
216
200
202

FIG-5

4008/5/2004

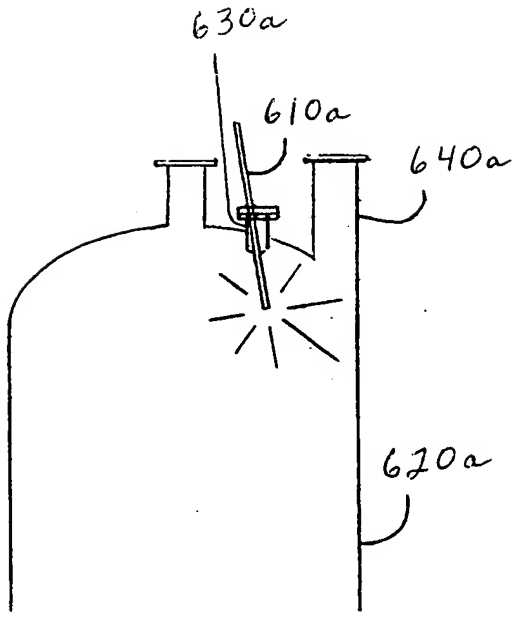

Fig. 6A

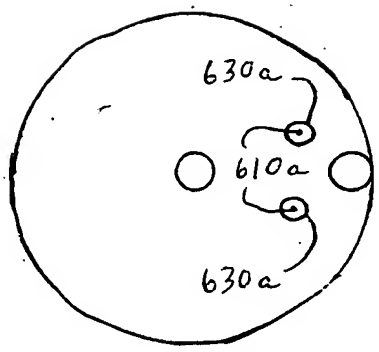

Fig. 6B

FOSSIL-2/9/2004

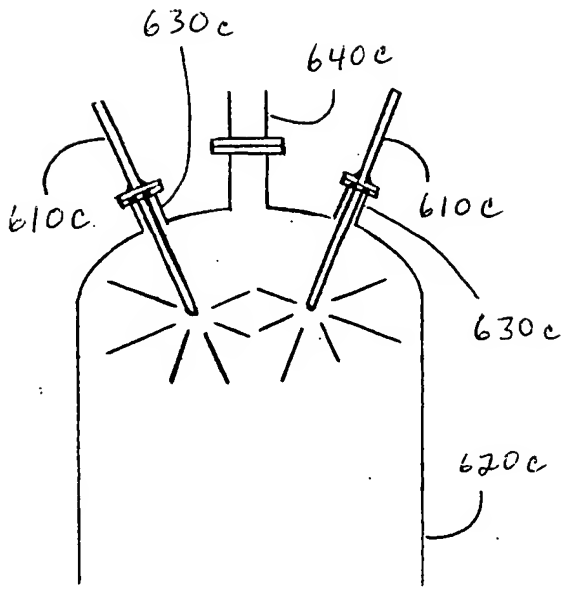

Fig. 6C

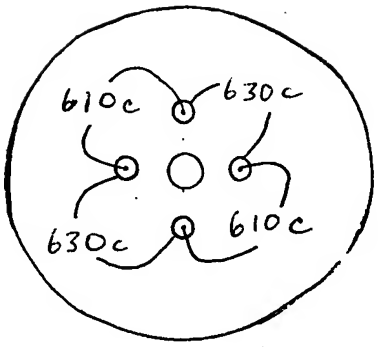

Fig. 6D

PCT/US2004/029004

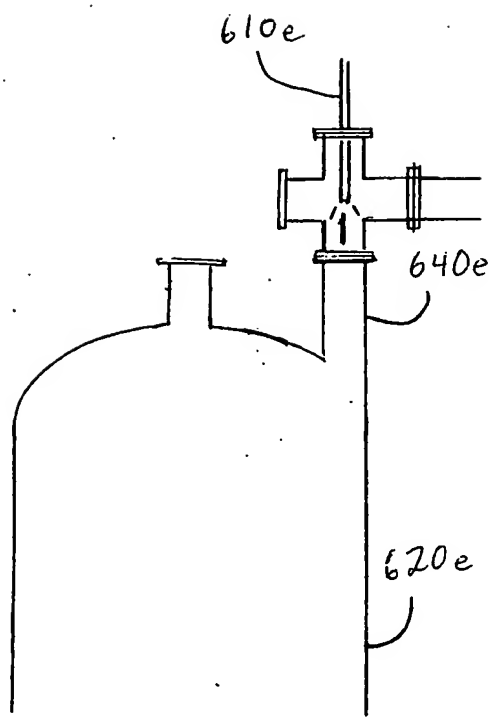

Fig. 6E

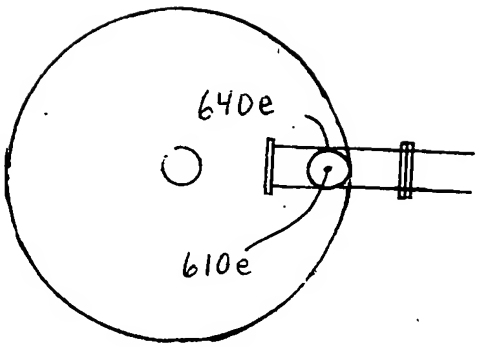

Fig. 6F

FOSSIL-2020.04

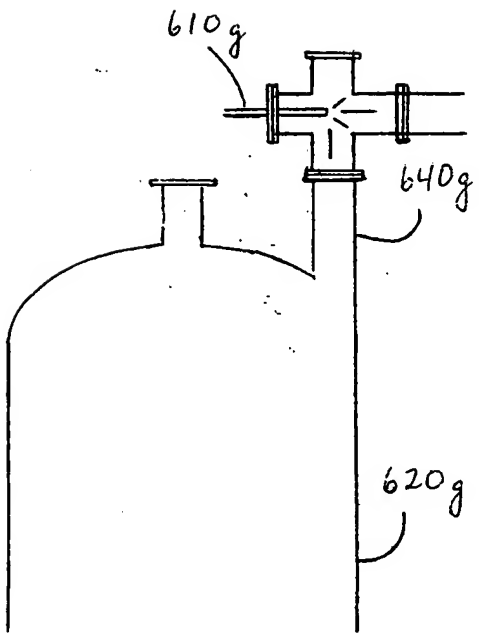

Fig. 6G

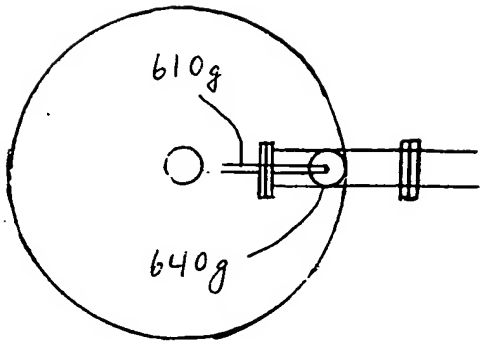

Fig. 6H

FIG - 7A

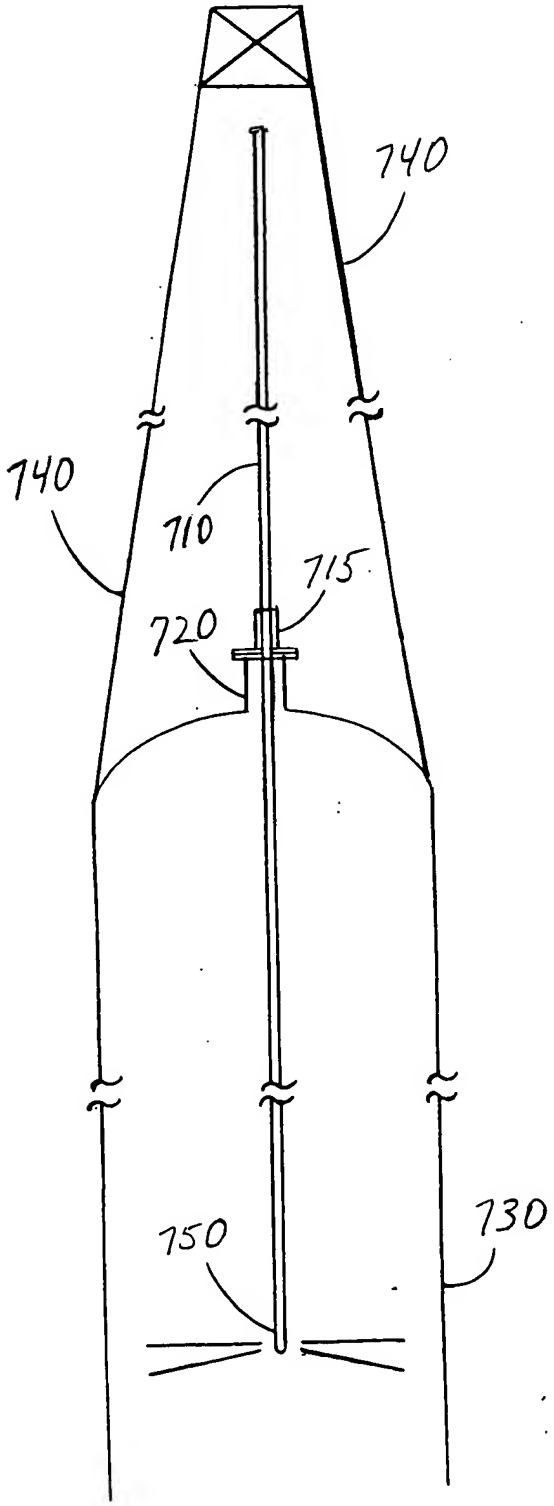

Fig. 7B

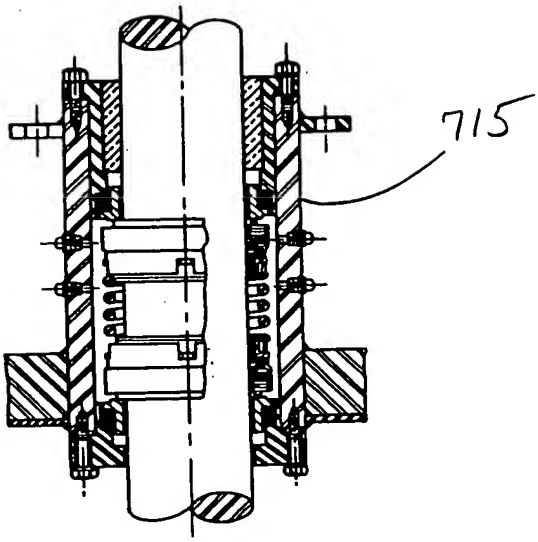

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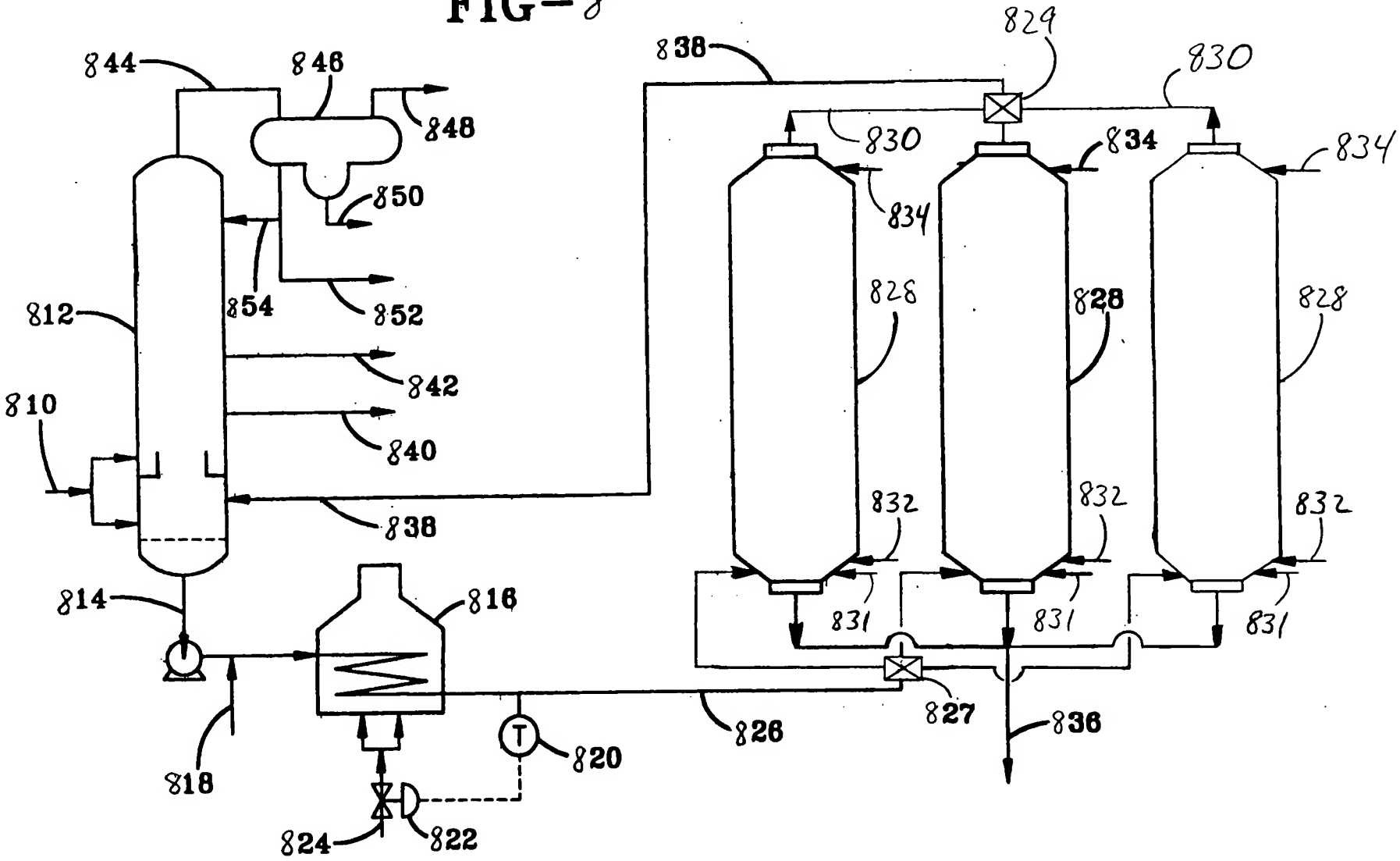
FIG-8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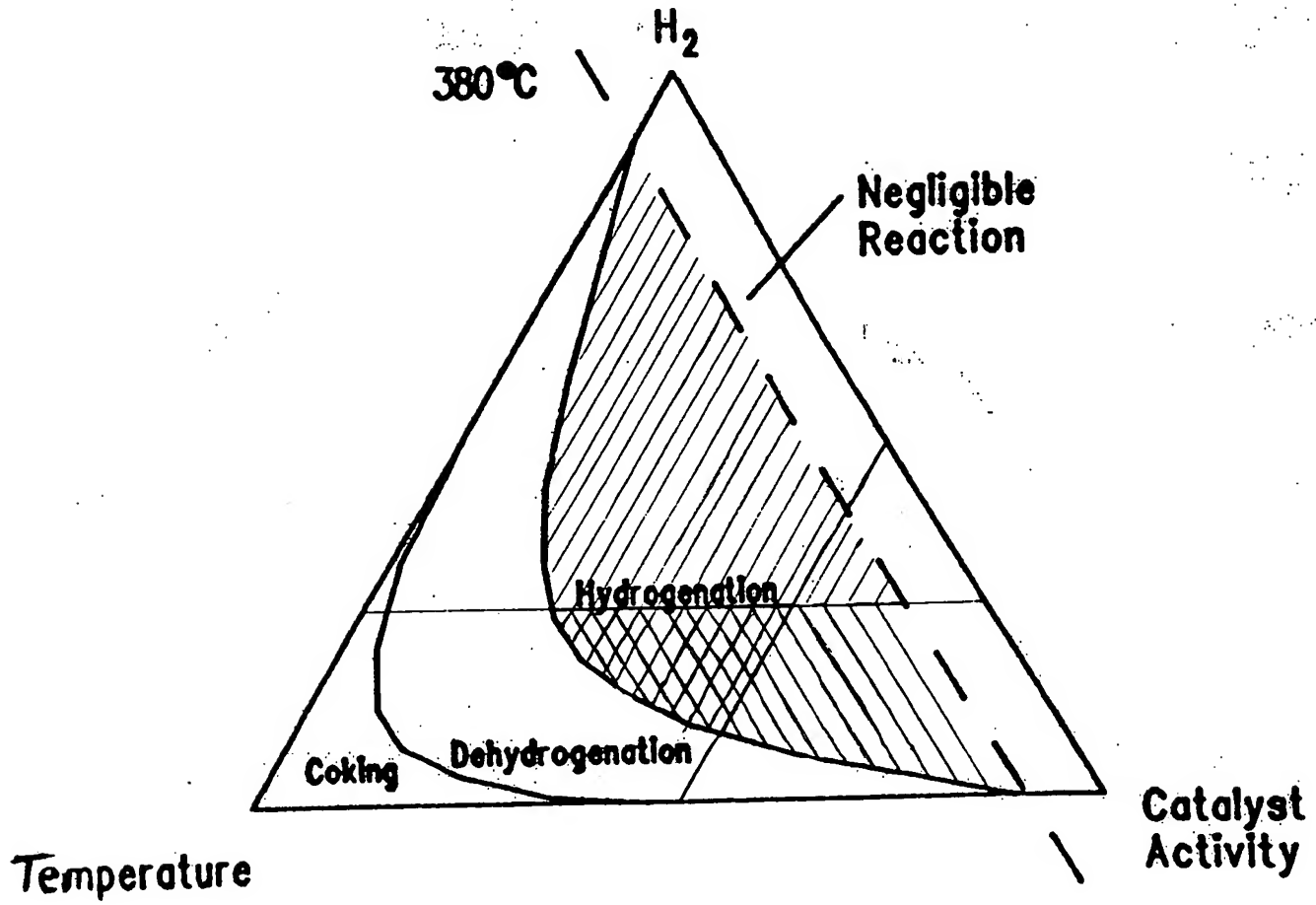
834

FIG - 9



Operation 1

Operation 2

Operation 3

T-0527 P.12/12 Job-027